

# **The Virginia Annual Recycling Rate Report**

**Calendar Year 2004 Summary**



**November 2005**

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## RECYCLING RATES IN VIRGINIA - CY 2004

DEQ has completed its review of the statewide and locality recycling rate data for CY 2004. The data was garnered from 95 submitted reports; represents all 324 Virginia cities, counties and towns. In some cases, reported data was adjusted for consistency with 9 VAC 20-130 et. seq.

From the data, DEQ has determined a statewide recycling rate for CY 2004 of **29.8 %**, based on 2,688,200 tons of material recycled as compared to 9,016,087 tons of waste generated. CY 2003 data compares at 2,822,416 tons of material recycled and 9,328,458 tons of waste generated, with the tonnage drops in CY 2004 reflective of better reporting based upon municipal solid waste (MSW) generation guidelines.

Forty-six (46) of the 95 reporting units experienced recycling rates of 25 % or greater. Most of the highest recycling rates were experience in the urban and semi-urban areas of Virginia. They include:

• Richmond Area	44.6%
• Northern Virginia	32.8%
• Hampton Roads	29.8%
• Roanoke Area	32.3%
• Lynchburg Area	31.7%
• Fredericksburg Area	28.8%
• Bristol	40.6%
• Northern Shenandoah Valley	29.7%

These areas reported a total of 2,372,076 tons, or **88%** of all recyclables collected in Virginia and had an average recycling rate of 34%. A few rural localities did experience a rate above 25%.

Forty-nine (49) of the 95 reporting units did not achieve the 25% rate, down from 62 reporting units below 25% recycling in CY 2003. Fourteen (14) reporting units were at 20-25%, 24 were 10-20% and 11 were below 10%. Most of these units are in rural areas where population density is low, collection infrastructures are often weak, and access to recyclable material markets may be limited. Perhaps as an indicator of these factors, all 49 of these areas accounted for only 311,520 tons (or 12%) of all recyclables collected, and had an average recycling rate of 14%.

DEQ is currently reviewing Solid Waste Management Plans (SWMPs) for completeness, including local or regional recycling program information. For the plans already reviewed and in which the locality/region has reported less than a 25% recycling rate for CY 2004, DEQ has asked for a Recycling Action Plan (RAP) submittal to the SWMP. These RAPs (3 received and approved to date) identify specific elements of the recycling program that will be changed or improved in order for the locality/region to reach a 25% recycling rate. The RAP includes both a commitment by the reporting unit to provide resources necessary to improve its program, but also a time-line for achieving the program elements identified as necessary to meeting the recycling goal. The RAP must be approved both by DEQ and by the administrative governmental board(s) for all localities covered by the Solid Waste Management Plan. Regular reporting on the progress made on the RAP is required.

## Recycling Rates in Virginia -- CY 2004

### Recycling Rates and Data \*

REPORTING ENTITY	CY 2004 Recycling Rate (%)	CY 2004 Total Recycled Tons (PRMs + SRMs)	CY 2004 Total MSW Tons (PRMs + SRMs + MSW disposed)
<b>Statewide Totals</b>	<b>29.8 % Average Statewide</b>	<b>2,688,200</b>	<b>9,016,087</b>
Accomack County	6.6	3,016	46,031
Alexandria (City)	20	33,024	165,030
Alleghany County	30.4	6,794	22,378
Amelia County	24.7	2,538	10,267
Amherst County	20.5	8,414	41,021
Appomattox County	22.6	2,623	11,611
Arlington County	30.2	80,401	266,355
Augusta County	20.4	13,379	65,707
Bath County	8.8	667	7,613
Bedford (City)	38.3	3,698	9,656
Bedford County	26	15,150	58,189
Bland County	10.5	317	3,016
Botetourt County	28.7	7,997	27,853
Bridgewater	8.3	188	2,258
Bristol (City)	40.6	16,544	40,773
Brunswick County	7.3	1,474	20,096
Buckingham County	25.3	2,938	11,629
Campbell County	20.4	12,709	62,168

<b>Caroline County</b>	11.6	1,691	14,612
<b>Carroll County</b>	10.2	595	5,817
<b>Central Virginia Waste Management Authority</b>	44.6	374,395	839,135
<b>Charlotte County <sup>1</sup></b>	18.2	1,774	9,740
<b>Craig County</b>	26.7	894	3,348
<b>Culpeper County</b>	26.9	10,719	39,812
<b>Cumberland County</b>	33.5	1,834	5,474
<b>Cumberland Plateau Regional WM Authority</b>	20	13,565	67,951
<b>Danville (City)</b>	28.9	11,055	38,261
<b>Fairfax (City)</b>	39.1	19,232	49,232
<b>Fairfax County</b>	31.6	454,040	1,435,429
<b>Falls Church (City)</b>	46.6	6,292	13,497
<b>Farmville (Town)</b>	44.3	2,698	6,091
<b>Fauquier County</b>	32.5	35,570	109,324
<b>Floyd County</b>	14.2	2,091	14,744
<b>Fluvanna County</b>	15.6	1,839	11,811
<b>Franklin County</b>	21.3	9,435	44,224
<b>Galax (City)</b>	9.1	999	11,033
<b>Gloucester County</b>	41.5	25,445	61,333
<b>Grayson County</b>	14.6	1,183	8,102
<b>Greene County</b>	14.7	5,262	35,757
<b>Halifax County <sup>1</sup></b>	12.2	3,378	27,650

<sup>1</sup> Under SRPSA Recycling Action Plan to achieve 25% recycling rate by 2007 (Charlotte, Halifax and Mecklenburg Counties).

<b>Harrisonburg (City)</b>	25.4	16,405	64,711
<b>Herndon (Town)</b>	36.6	9,703	26,528
<b>Highland County</b>	25	547	2,186
<b>Hillsville (Town)</b>	16.5	551	3,345
<b>King George County</b>	18.2	2,568	14,091
<b>Lancaster County</b>	39.3	6,260	15,934
<b>Lee County</b>	15.5	3,622	23,350
<b>Loudoun County <sup>2</sup></b>	25.3	85,667	337,939
<b>Louisa County</b>	11.3	1,993	17,663
<b>Lunenburg County</b>	32.4	3,980	12,283
<b>Lynchburg (City)</b>	34.3	63,931	186,261
<b>Madison County</b>	20.2	2,841	14,073
<b>Manassas (City)</b>	26.9	12,782	47,549
<b>Manassas Park (City)</b>	9.9	684	6,919
<b>Martinsville (City)/Henry County SWMP</b>	26.2	18,306	69,792
<b>Mecklenburg County <sup>1</sup></b>	13.8	3,822	27,656
<b>Montgomery Regional Solid Waste Authority</b>	32.5	32,852	101,029
<b>Nelson County</b>	7	1,058	15,086
<b>New River Resource Authority</b>	26.7	23,159	86,680
<b>Newport News (City)</b>	32.8	72,188	220,136
<b>Northampton County</b>	1.6	364	22,371
<b>Northern Shenandoah Valley Regional Commission</b>	29.7	75,726	255,278

<sup>2</sup> Conditional Solid Waste Management Plan approval changed to a full approval on 9/6/05 due to attainment of 25.3% recycling rate.

<b>Northumberland County</b>	14.8	2,332	15,753
<b>Nottoway County</b>	32.7	10,056	30,788
<b>Orange (Town)</b>	32.5	627	1,927
<b>Orange County</b>	3.5	1,293	37,027
<b>Patrick County</b>	10.1	1,020	10,124
<b>Pittsylvania County <sup>3</sup></b>	6.3	2,528	39,942
<b>Prince Edward County</b>	15.6	3,820	24,465
<b>Prince William County</b>	34.2	150,719	440,440
<b>Rappahannock County</b>	17.5	1,659	9,494
<b>Rappahannock Regional Solid Waste Management Board</b>	26.6	50,438	189,819
<b>Richmond County</b>	14.4	1,192	8,304
<b>Rivanna Solid Waste Authority</b>	28.9	41,341	142,843
<b>Roanoke (City)</b>	48.1	33,352	69,357
<b>Roanoke County</b>	28.5	19,681	68,961
<b>Rockbridge County</b>	16.8	4,918	29,278
<b>Rockingham County</b>	25	22,560	90,080
<b>Salem (City)</b>	25.6	8,363	32,667
<b>Scott County</b>	21.6	3,175	14,712
<b>Smyth County</b>	21.5	4,256	19,834
<b>Southeastern Public Service Authority</b>	25.3	381,111	1,507,704
<b>Southern Crater Region</b>	16.8	13,244	78,725
<b>Spotsylvania County</b>	33.9	37,397	110,267

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<sup>3</sup> Under Recycling Action Plan to increase recycling to 25% by 2007.



<b>Staunton (City)</b>	34.9	14,648	42,021
<b>Tazewell County</b>	22.8	13,345	58,642
<b>Vienna (Town)</b>	54.6	6,597	12,073
<b>Vinton</b>	29.4	1,940	6,598
<b>Virginia Peninsulas Public Service Authority</b>	41.9	186,139	444,412
<b>Warrenton (Town)</b>	28.2	1,647	5,835
<b>Washington County</b>	19.7	5,236	26,635
<b>Waynesboro (City)</b>	14.6	4,719	32,267
<b>Westmoreland County</b>	16.1	3,110	19,364
<b>Wise County</b>	18.9	11,940	63,020
<b>Wythe County</b>	23.9	9,048	37,937
<b>STATEWIDE TOTALS CY 2004</b>	<b>29.8 %</b>	<b>2,688,200 Tons</b>	<b>9,016,087 Tons</b>

\* All data based on adjustments by DEQ for consistency with 9VAC-20-130-10 and 9VAC20-130-120.

## Virginia Localities Reporting Rate Information for CY 2004

Principal Recyclable Material (PRM)		Supplemental Recyclable Material (SRM)				Total MSW Disposed	
		Recycled SRM		Reused SRM			
Paper	981,813	WasteTires	81,234	Const. Waste	300	Household Waste	4,663,944
Metal	503,857	Used Oil	54,044	Demol. Waste	183		
Plastic	37,144	Used Oil Filters	2,206	Debris Waste	5,442	Commercial Waste	1,527,405
Glass	47,153	Used Antifreeze	4,782	Ash	88,328		
Commingled	60,274	Auto Bodies	25,574	Other:	3,166	Institutional Waste	123,712
Yard Waste	463,631	Batteries	23,532				
Waste Wood	243,903	Sludge (Composted)	20,070			Other:**	12,826
Textiles	21,937	Electronics	1,175				
		Tree Stumps (>6" Diameter)	322			<b>TOTAL MSW (Tons)</b>	<b>6,327,887</b>
<b>Total PRM (P) (Tons)</b>	<b>2,359,714</b>	Other:	18,128				
		<b>TOTAL Recycled SRM (Tons)</b>	<b>231,067</b>	<b>TOTAL Reused SRM (Tons)</b>	<b>97,419</b>	<b>Recycling Rate:</b> <b>(P+S)/(P+S+M) x 100</b> <i>(2,688,200/9,016,087 X 100)</i>	
						** May include total amounts of SRM generated	
		<b>Total SRM (S) (Tons)</b>	<b>328,486</b>				

\* All data based on adjustments by DEQ for consistency with 9VAC-20-130-10 and 9VAC20-130-120.

# RECYCLING IN VIRGINIA, CY 2004

Statewide Recycling Rate of 29.8%

